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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/806,224 06/11/2001		06/11/2001	Hartmut Grutzediek	1477.011	4906	
23405	7590	09/02/2005	,	EXAMINER		
		SERG FARLEY &	FOURSON III.	FOURSON III, GEORGE R		
5 COLUMB ALBANY, 1				ART UNIT	PAPER NUMBER	
ŕ				2823		
				DATE MAILED: 09/02/2005	DATE MAILED: 09/02/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary			Application No. Applicant(s)						
			24	GRUTZEDIEK ET AL.					
			r	Art Unit					
		George F		2823					
Period fo	The MAILING DATE of this communica or Reply	tion appears on th	e cover sheet with the	correspondence ac	ddress				
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum statulity re to reply within the set or extended period for reply will, reply received by the Office later than three months after any part of the provided patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF T of CFR 1.136(a). In no exaction. ory period will apply and way by statute, cause the ap	HIS COMMUNICATIO vent, however, may a reply be ti vill expire SIX (6) MONTHS from plication to become ABANDON	N. mely filed n the mailing date of this c ED (35 U.S.C. § 133).					
Status									
1)⊠	Responsive to communication(s) filed of	on 16 lune 2005							
			non-final						
3)									
٥,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims	·	•	•					
4)⊠									
	Claim(s) <u>1-27, 29-31</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
	Claim(s) is/are rejected.								
•	Claim(s) is/are objected to.				•				
	Claim(s) are subject to restrictio	n and/or election	requirement.						
Applicati	on Papers								
	The specification is objected to by the E	xaminer							
•	The drawing(s) filed on is/are: a) objected to by the	Examiner.					
, ,	Applicant may not request that any objectio	· •	•						
	Replacement drawing sheet(s) including the	= "			FR 1.121(d).				
11)	The oath or declaration is objected to by	•	- · ·	•	* *				
Priority ι	ınder 35 U.S.C. § 119								
•	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do	cuments have be	en received.						
	3. Copies of the certified cop		• •		Stage				
	application from the International	•		od III tillo Hational	Clago				
* 5	See the attached detailed Office action for	•	• • •	ed.					
			·						
Attachmen	t(s)								
	e of References Cited (PTO-892)		4) Interview Summar						
	e of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449 or PT		Paper No(s)/Mail [5) Notice of Informal		O-152)				
	r No(s)/Mail Date	<i>0.00.00)</i>	6) Other:	FF -23-60 V	,				

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/20/04 has been entered.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-27 and 29-31 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no description in the disclosure as originally filed of "the p-doped or n-doped inner area having a same doping concentration as the starting semiconductor substrate".

In view of applicant's argument in the amendment filed 6/16/05, figure 1 is seen to show implantation using a higher dose than that used in figure 2 (the drawings filed with the amendment filed 10/20/04). Although there is not now seen a discrepancy between the figures the figures are not seen to depict no change in the doping level for any of the implantation energies. As noted by applicant, the lowest value on the vertical axis is not zero but is instead greater than zero as is the lowest value on the vertical

axes of figures 2A-2C of Goo. Therefor, all of the pointed to drawings show some of the implanted ions residing at the surface of the substrate.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See Goo at Figures 2A-2C which results from an energy of several electron volts (col.4) and the disclosure at column 5 that the implant does not adversely affect device properties. See Odanaka at figures 2a-2d and claim 5. See Seliskar et al at figure 4 and col.3 wherein options related to mask material, ion, dose and energy are disclosed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Fourson whose telephone number is (571) 272-1860. The examiner can normally be reached on Monday through Friday.

Application/Control Number: 09/806,224

Art Unit: 2823

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith, can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George Fourson Primary Examiner Art Unit 2823

GFourson August 30, 2005